

MULTIVARIATE ANALYSIS

CHOOSING TEST AND CONCEPTUAL FRAMEWORK



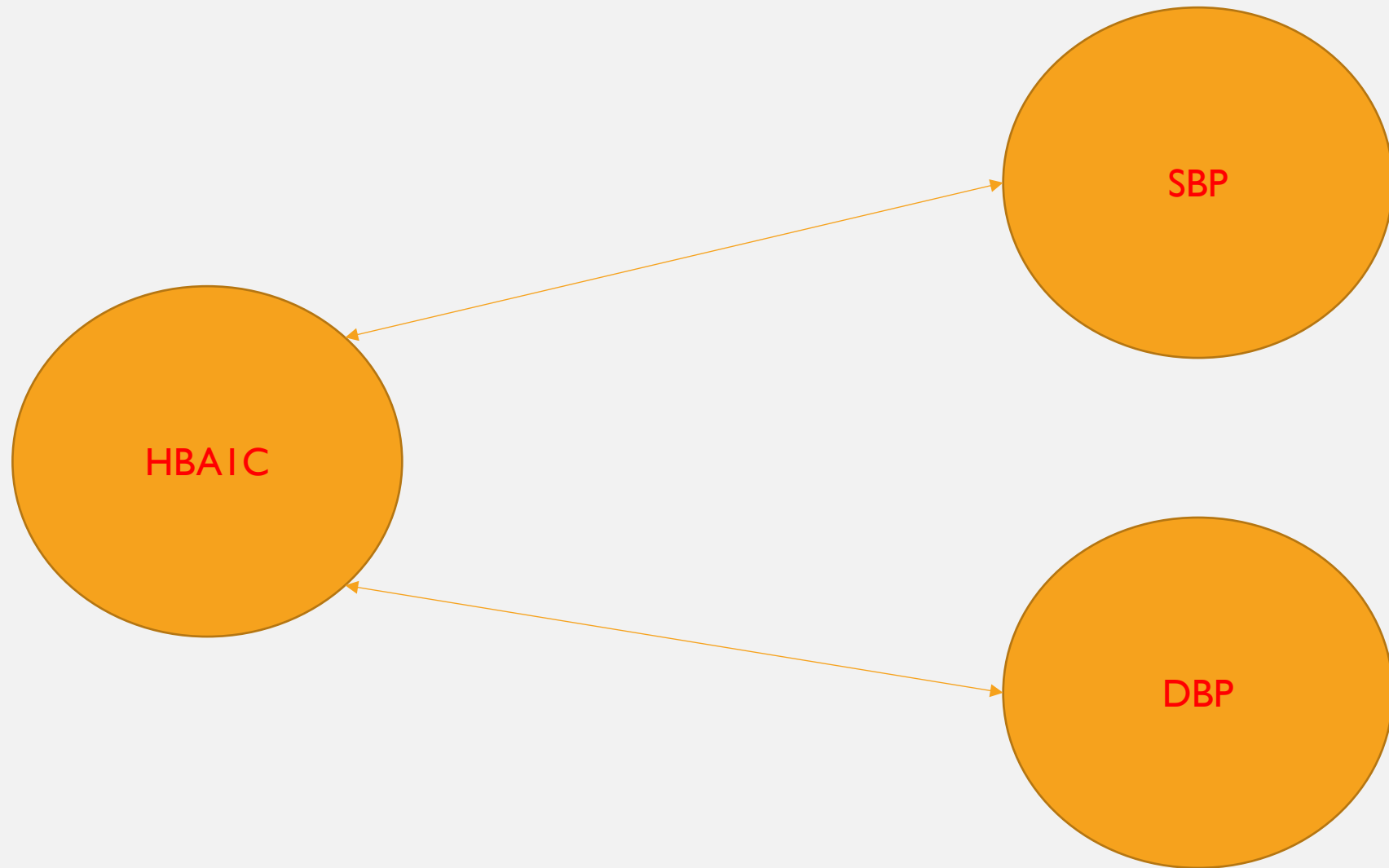
**COMMUNITY
MEDICINE**

Adil ZA

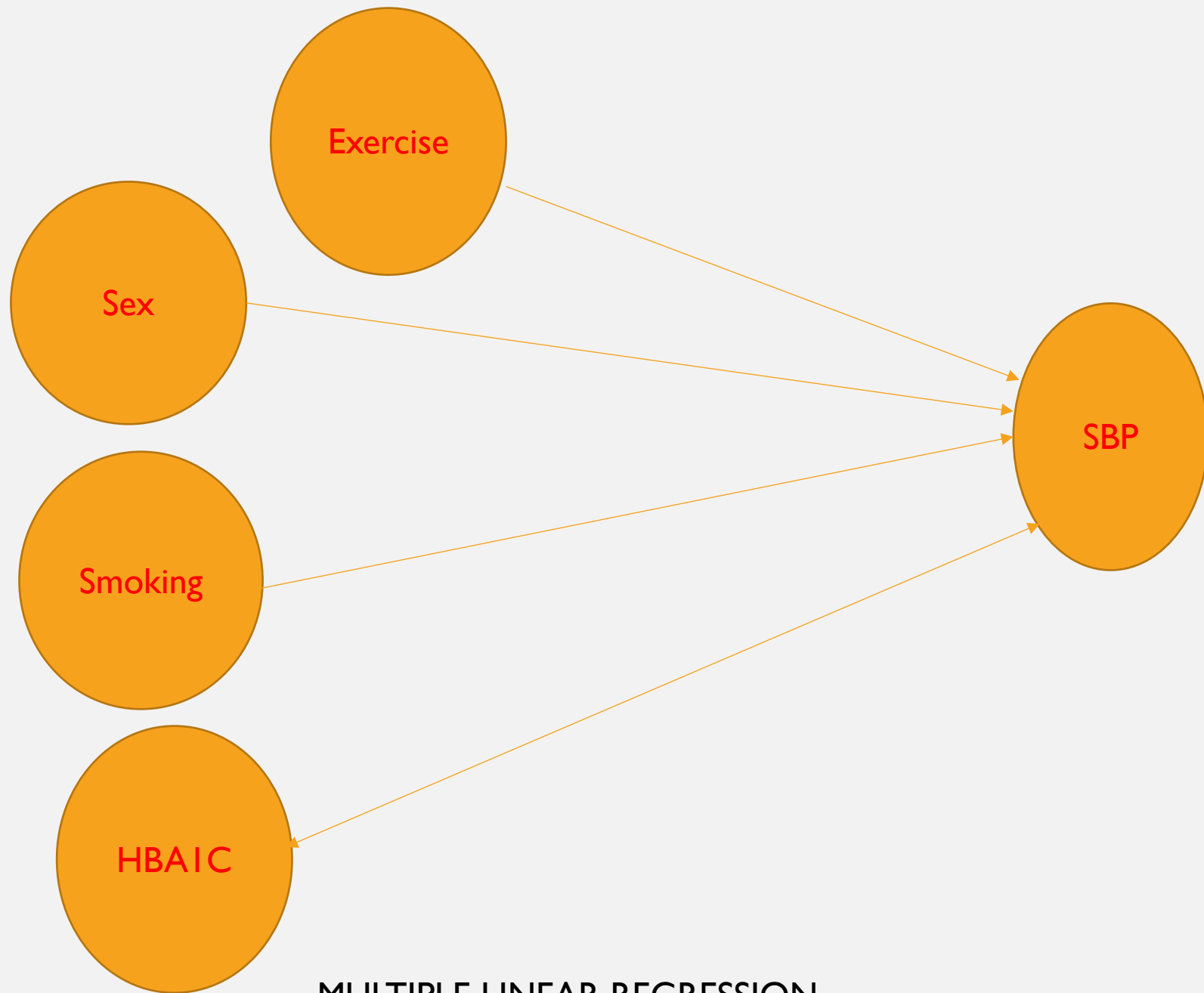
MBBS, DLSHTM, MSc, MPH, DrPH

TYPE OF STATISTICAL TEST

DV – Dependent/outcome IV -Independent/explanatory		DV			
		Categorical		Continuous	
		1 DV 2 Category	1 DV >2 Category	1 DV	>1 DV
IV	1 IV, 2 Category Between subject	Chi square test		Independent t test	
	1 IV, 2 Category Within subject			Paired t test	
	1 IV, >2 Category btw subject			One-way ANOVA	One-way MANOVA
	1 IV, > 2 Category w subject			RM-ANOVA	RM-MANOVA
	>1 IV, All Categorical	Binomial logistic regression	Multinomial logistic regression	2 Way ANOVA	2 Way MANOVA
	>1 IV, Mixed category and continuous			ANCOVA	MANCOVA
	1 Continuous variable			Simple linear regression	Multivariate linear regression
	>1 Continuous variable			Multiple linear regression	



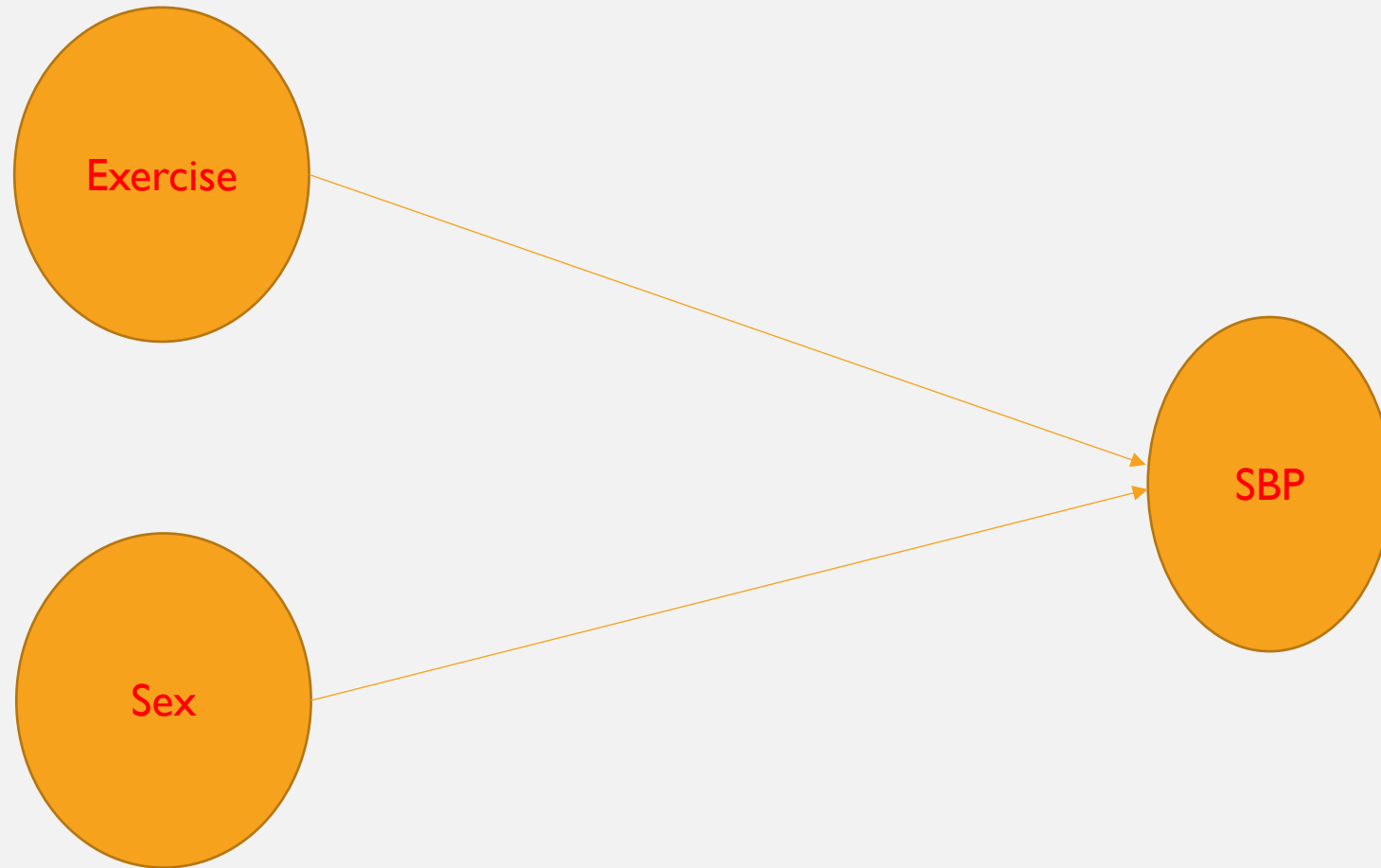
SIMPLE LINEAR REGRESSION



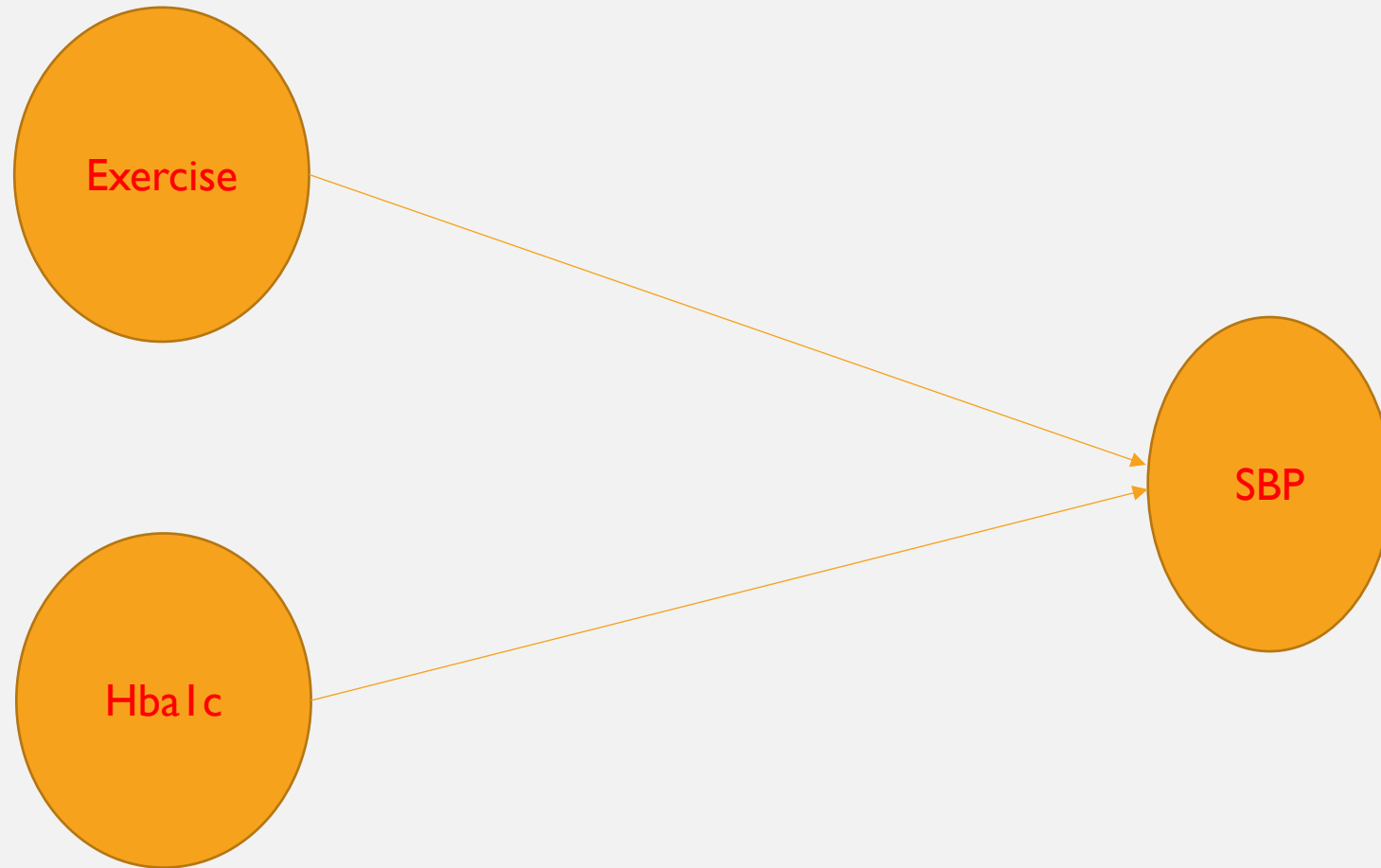
MULTIPLE LINEAR REGRESSION



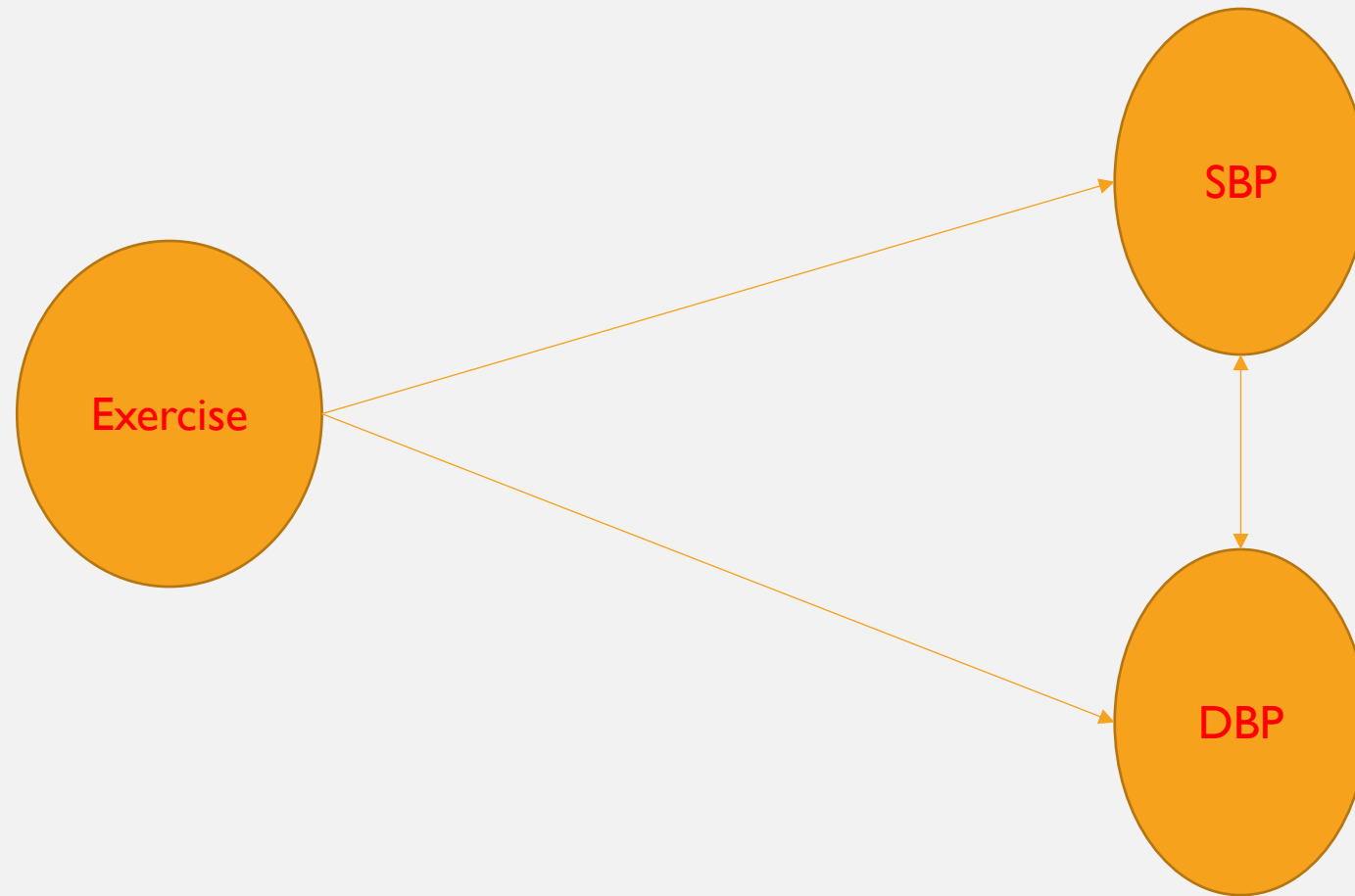
ANOVA



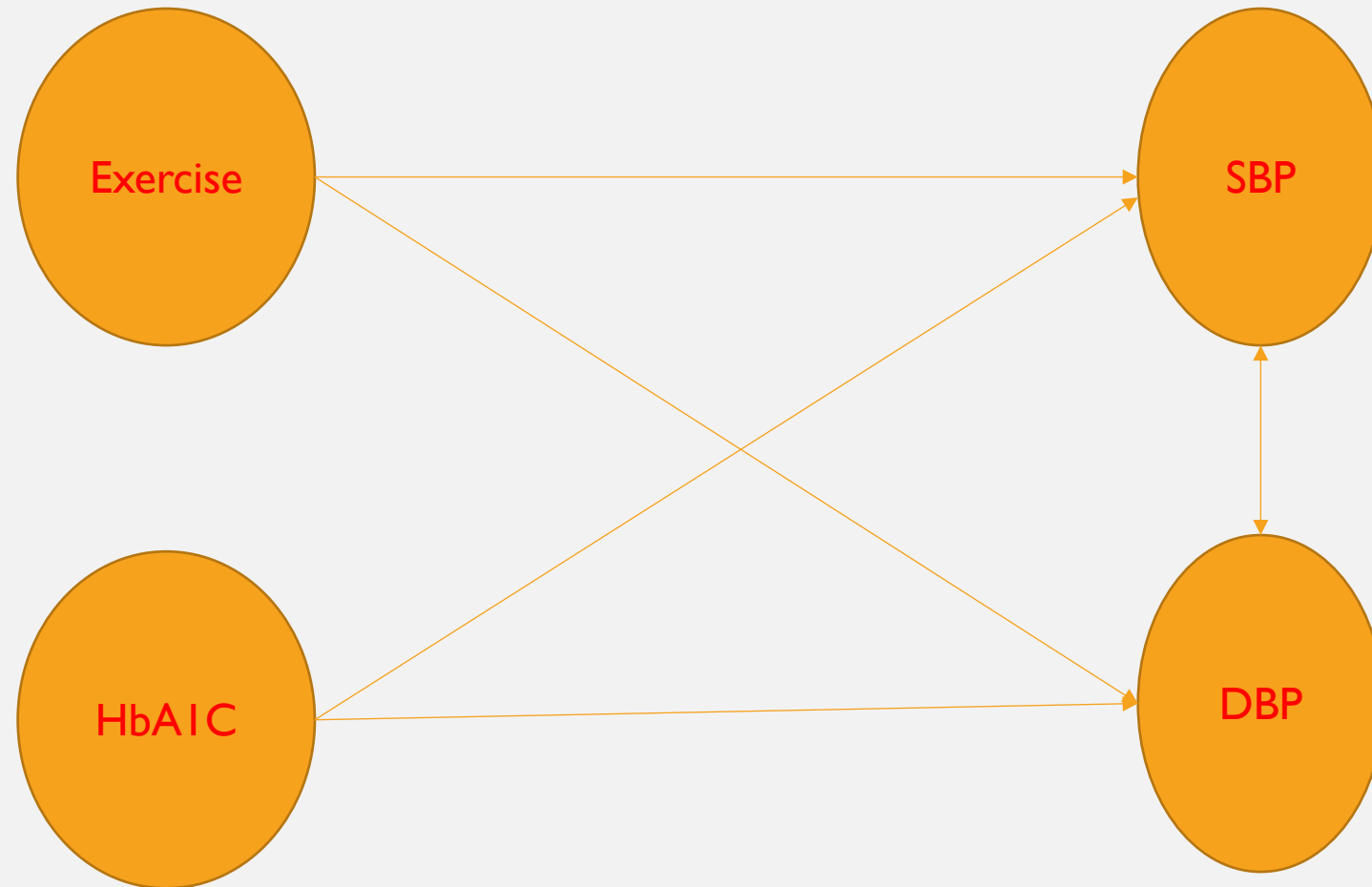
2 WAY ANOVA



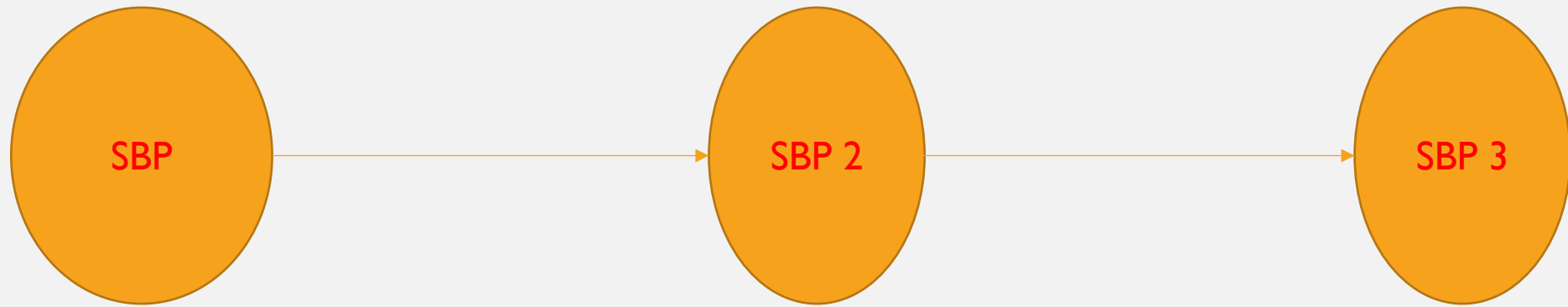
ANCOVA

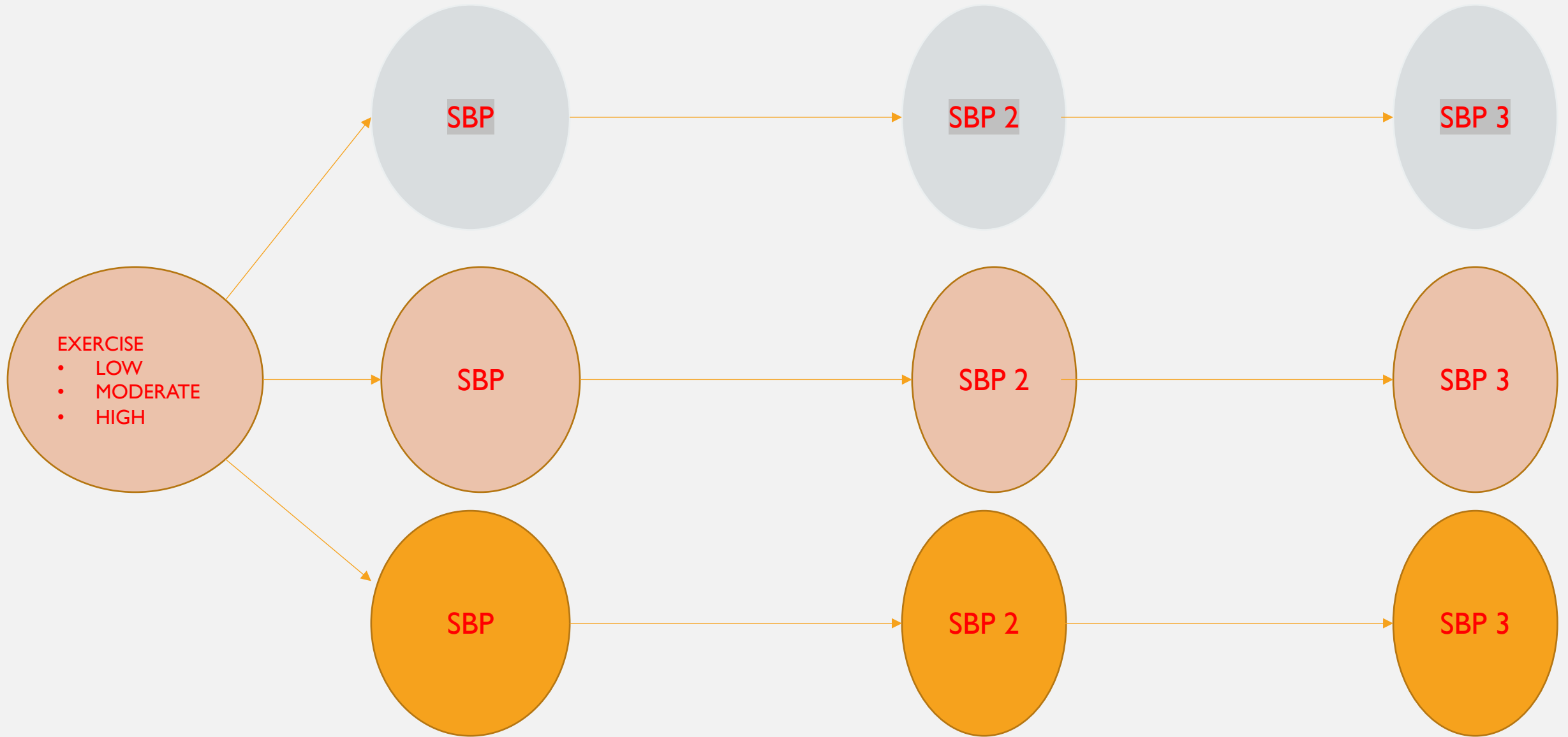


MANOVA



MANCOVA

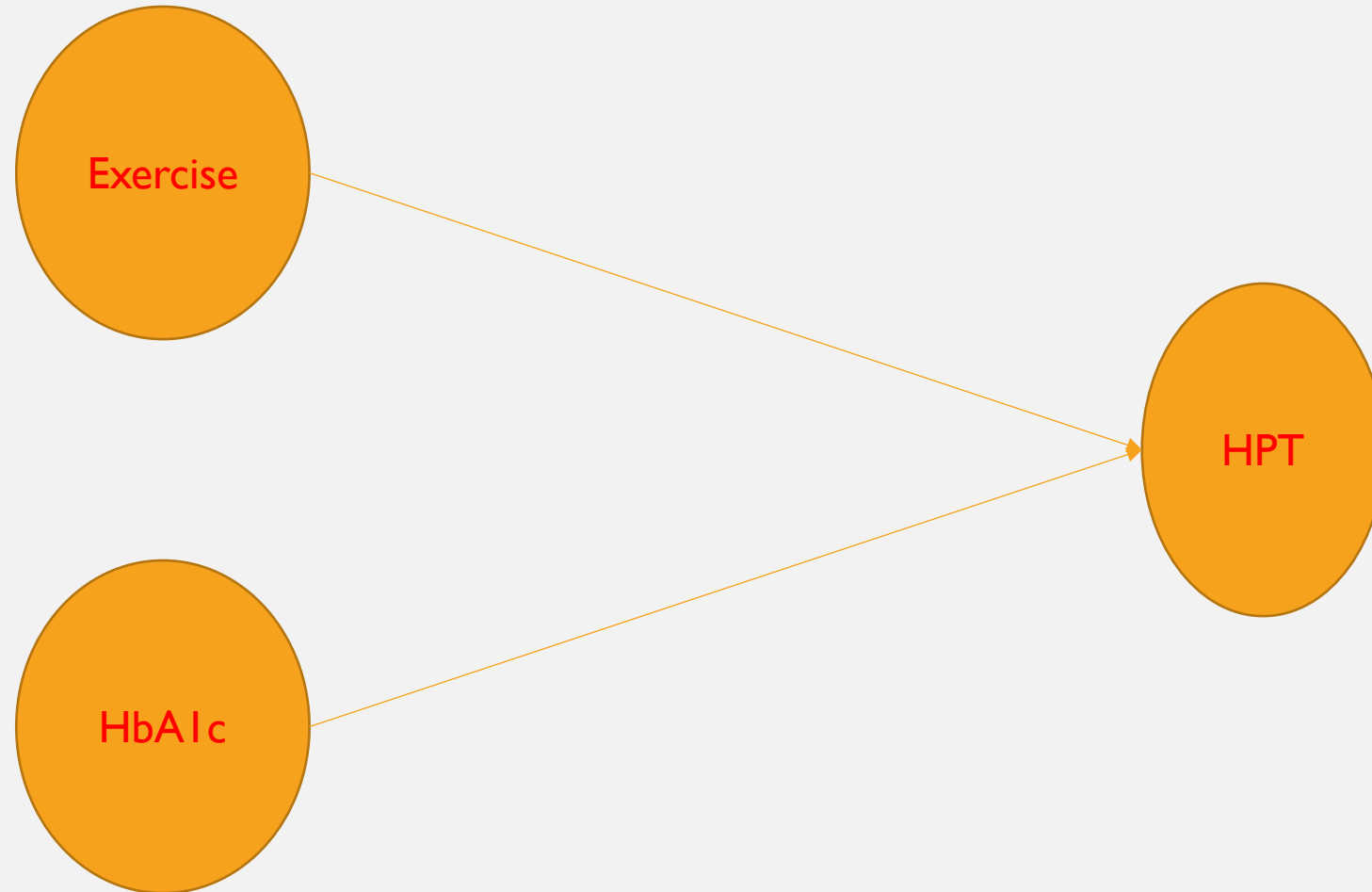




REPEATED MEASURE 2 WAY ANOVA



SIMPLE LOGISTIC REGRESSION



MULTIPLE LOGISTIC REGRESSION

THANK YOU